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3

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United States Patent Number 5233 270, column \_\_\_\_\_, line, \_\_\_\_\_ or \_\_\_\_\_

WIPO Pub. No. \_\_\_\_\_, page \_\_\_\_\_, line \_\_\_\_\_.

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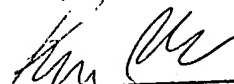
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US005233270A

# United States Patent [19] Nilssen

[11] Patent Number: 5,233,270  
[45] Date of Patent: \* Aug. 3, 1993

## [54] SELF-BALLASTED SCREW-IN FLUORESCENT LAMP

[76] Inventor: Ole K. Nilssen, Caesar Dr.,  
Barrington, Ill. 60010

[\*] Notice: The portion of the term of this patent  
subsequent to Sep. 10, 2008 has been  
disclaimed.

[21] Appl. No.: 955,229

[22] Filed: Oct. 1, 1992

### Related U.S. Application Data

[63] Continuation of Ser. No. 607,271, Oct. 31, 1990, abandoned, which is a continuation-in-part of Ser. No. 787,692, Oct. 15, 1985, abandoned, which is a continuation of Ser. No. 644,155, Aug. 27, 1984, abandoned, which is a continuation of Ser. No. 555,426, Nov. 23, 1983, abandoned, which is a continuation of Ser. No. 178,107, Aug. 14, 1980, abandoned.

[51] Int. Cl.<sup>5</sup> ..... H05B 41/29  
[52] U.S. Cl. .... 315/58; 315/326;  
315/DIG. 5

[58] Field of Search ..... 315/32, 51, 53, 56,  
315/58, 326, DIG. 2, DIG. 5; 313/634, 635,  
317, 318, 493

## [56] References Cited U.S. PATENT DOCUMENTS

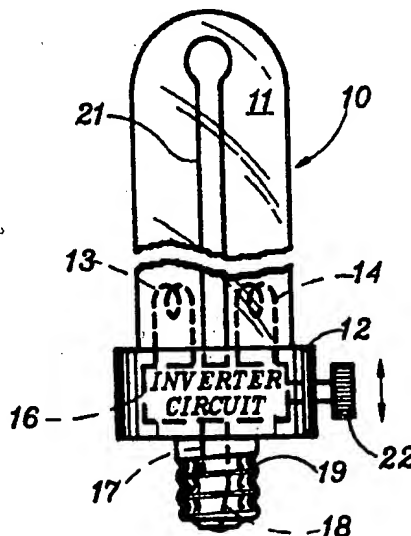
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Primary Examiner—David Mis

## [57] ABSTRACT

A compact screw-in fluorescent lamp is mounted on an ordinary Edison-type screw-base. An inverter-type ballast is integrally included with the base, thereby making the fluorescent lamp capable of being screwed into an ordinary lamp socket and to be powered therefrom by ordinary power line voltage. The fluorescent lamp is folded and has a narrowed section of glass. The inverter-type ballast, which includes a half-bridge self-oscillating inverter, is powered via a voltage doubler and powers the fluorescent lamp via an tuned L-C circuit. Light output can be adjusted by way of an adjustment means functional to adjust the inverter frequency, thereby correspondingly to adjust the magnitude of the lamp current.

18 Claims, 2 Drawing Sheets



Printer Friendly

07/955,229 SELF-BALLASTED SCREW-IN FLUORESCENT LAMP

## Continuity Data

Parent Continuity Data				
Description	Parent Number	Parent Filing or 371(c) Date	Parent Status	Patent Number
This application is a Continuation of	07/607,271	10-31-1990	Abandoned	-
Which is a Continuation in part of	06/787,692	10-15-1985	Abandoned	-
Which is a Continuation of	06/644,155	08-27-1984	Abandoned	-
Which is a Continuation of	06/555,426	11-23-1983	Abandoned	-
Which is a Continuation of	06/178,107	08-14-1980	Abandoned	-
Child Continuity Data				
08/046,171 filed on 04-27-1993 which is Patented claims the benefit of 07/955,229				
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